Álvaro Corrales Cano

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Senior Data Scientist with 7 years of experience in AI and Cloud. Skilled in Python, machine learning, econometrics, and data visualization.

WORK EXPERIENCE

Travel - Career Break   09/2023 - 08/2024

IBM
London, UK

Pre-sales development of PoCs (proof of concept) with AI and Cloud technologies for clients in the banking, telco and public sector, using an Agile framework.

Senior Data Scientist – AI Team Community Lead   10/2022 – 09/2023
Client Engineering Team

- Supported the delivery of +30 projects for +15 clients, including PoCs, MVPs, workshops and demos. Engaged with C-level stakeholders, department leaders and development teams.
- Internal Management: AI Community Lead of a ~15-people team; Designed and conducted recruitment process; Mentoring; Knowledge management.

Selected projects:
- Led a team to create an algorithm for identifying non-compliant IT controls for a major UK bank using a sentence encoding model, a BERT-based entity extraction model and logical rules. The project resulted in a two-order-of-magnitude increase in controls processed.
- Led the development of a data governance framework for a major UK bank including business terms, categories, data privacy rules, and automated data quality assessments.

Data Scientist   04/2021 – 09/2022
Client Engineering Team

Selected projects:
- Led a team for the creation of a tool for auditing customer calls for a major UK bank using a custom speech-to-text model and a BERT-based model for entity extraction and sentiment analysis. The tool improved up to 15 p.p. the transcription accuracy over the existing solution.
- Developed a dashboard for an NHS trust in the UK to visualise internal governance metrics and predict future performance using time series models.

Data Scientist   11/2019 – 03/2021
Cloud Pak Acceleration Team

Selected projects:
- Emergent Alliance (open-source initiative). Co-authored a model of the economy to study how economic shocks propagate across economic sectors using input-output tables. Github repository [here](#).

Charles River Associates
London, UK

Economic consulting in mergers and abuse of dominance cases.

Consulting Associate   08/2018 – 07/2019
European Competition Practice

- Successfully advised PayPal in its acquisition of iZettle, a company in the card payments industry, in a $2.2bn operation. Tasks included: Market share calculation; Customer survey design and analysis; Customer database fuzzy matching; Report drafting.
- Worked on other cases in the tech, air transport and natural gas sectors in front of the UK's and the EU's competition authorities.

Neovantas Consulting
Management consulting

Madrid, Spain

Business Analyst – Data Analyst   01/2016 – 08/2017

- Led a lighthouse project for the design and implementation of a debt recovery strategy for a collection agency using speech analytics and econometrics. Improvement of up to +29 p.p. in collection ratios. Started this project as an intern; after one year, I was leading a team of three people, including client-facing responsibilities.

PUBLICATIONS

An Introduction to Time Series, Educative   11/2023

A 40-lesson online course on time series analysis and forecasting in Python. It uses the pandas, numpy, matplotlib and statsmodels libraries to illustrate concepts in +80 code widgets.
URL: https://www.educative.io/courses/an-introduction-to-time-series
Educative is a hands-on learning platform for software developers offering text-based courses and coding environments.

EDUCATION

Barcelona School of Economics
MSc in Economics and Finance

Barcelona, Spain
2017 - 2018

Universidad Carlos III de Madrid
BA in Economics

Madrid, Spain
2012 - 2016

University of California, Berkeley
BA in Economics, *year abroad*

Berkeley, CA, US
2014 – 2015

SKILLS

Techniques: Machine Learning – *supervised and unsupervised learning*; Causal Inference; Time Series Analysis – *ARIMA, decomposition, forecasting*; Statistical Analysis; LLM – *AI agents*; NLP – *sentiment analysis, topic modelling*; Data Visualisation and Story Telling; Data Governance, MLOps.

Technologies: Python - *numpy, pandas, scikit-learn, statsmodels, skforecast, pytorch*; IBM Cloud; Databases - *Db2, MongoDB*; Dashboarding - *Cognos Analytics, streamlit*; Excel; SQL; Git.

OTHER

Languages

- **Spanish** – Native
- **English** – Full proficiency
- **French** – Intermediate

Visa status

- Spanish national
- Settled status in the UK - Indefinite leave to remain